

Smallpox Vaccine Clinic Screening

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Program Issues: General Concepts

- **Vaccination targeted to Public Health Smallpox Response Teams and hospital-based Healthcare Smallpox Response Teams**
- **Sites established considering population density, hospital clusters, judicious use of vaccine, vaccine security, and accessibility**

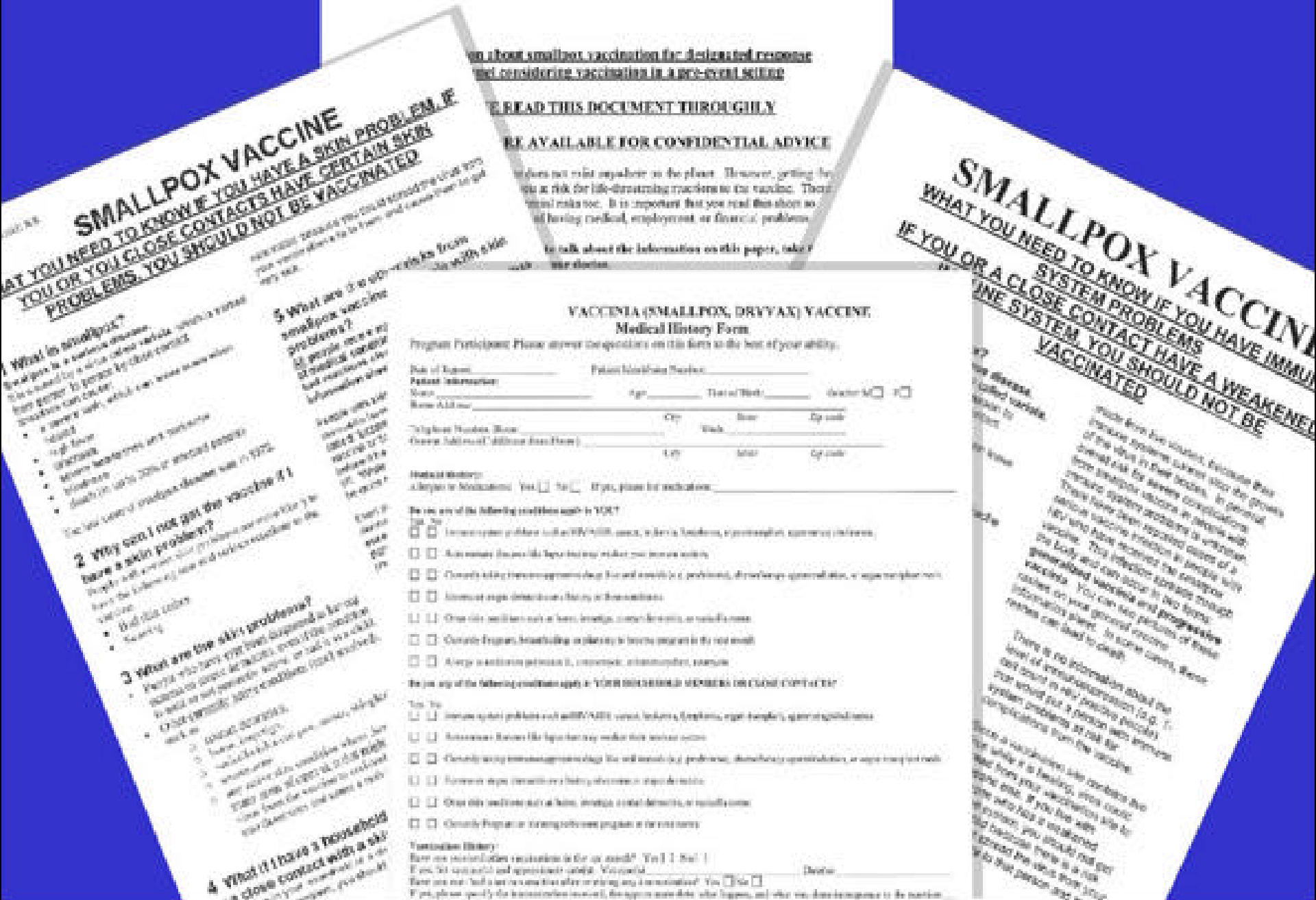
Pre-Clinic Screening Issues

- **Volunteers given pre-vaccination education materials that describe risk factors and help them work through self-screening for contraindications**

Pre-Vaccination Education

Potential Team Member gets Pre-vaccination info packet

1. Introduction/Cover Letter with packet contents
2. Vaccinee screening worksheet for contraindications
3. Information sheets:
 - Vaccine Information Sheet
 - Skin disorders
 - Immune problems
 - Pregnancy
 - VIG
 - Cidofovir
 - “What to expect following vaccination” info sheet
4. Site care sheet
5. Post-vaccination follow up instructions sheet



Contents of volunteer pre-clinic screening packet



Medical Screening

- May opt out after:
 - Reading the pre-vaccination info packet (before appt.)
 - Getting test results (before appt.)
 - At clinic
- Advised not to present to clinic if contraindication to vaccination or chose not to participate
- Repeat screening questions for CI's on clinic history form

Medical Screening

- **Response Team volunteers ineligible if:**
 - **Serious vaccine component allergy in vaccinee**
 - **Immunosuppression or household contact**
 - **Eczema/atopic dermatitis or household contact**
 - **Other skin conditions or household contact (vaccinate when healed)**
 - **Pregnancy or household contact who is pregnant**
 - **Breastfeeding in vaccinee**
 - **Moderate or severe acute illness in vaccinee (vaccinate when well)**

**** *When in doubt, err on the side of caution***

Smallpox Vaccine

Contraindications and Precautions

(Nonemergency Situations)

- **Serious allergic reaction to a prior dose of Dryvax® vaccine or vaccine component**
 - **polymyxin B**
 - **streptomycin**
 - **tetracycline**
 - **neomycin**
 - **phenol**

Smallpox Vaccine

Contraindications and Precautions

(Nonemergency Situations)

- **Immunosuppression in the recipient or household contact**
 - **Medical conditions**
 - **Medical therapies**
- **When in doubt about whether a condition or therapy is immunosuppressive, err on the side of caution**

Examples of Immunosuppressive Diseases

- Leukemia
- Lymphoma
- Generalized malignancy
- Solid organ or stem cell transplantation
- Humoral or cellular immunity disorders
- HIV infection
- Severe autoimmune diseases (e.g., lupus, dermatomyositis, scleroderma) can have immunosuppression as component of disease

Examples of Immunosuppressive Therapies

- Alkylating agents
- Antimetabolites
- Radiation
- High dose corticosteroid therapy
 - ≥ 2 mg/kg/day, OR
 - ≥ 20 mg/day for ≥ 14 days
- Immune modulating drugs (e.g. etanercept and infliximab)

***** If unsure about a medication, review drug information resource (PDR, Drug Facts and Comparisons, etc.)***

Progressive Vaccinia



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Screening for HIV Infection

- **ACIP does not recommend mandatory testing**
- **Testing should be readily available:**
 - **confidential or anonymous setting**
 - **list of community test sites/options**
 - **recommended for persons who have any history of a risk factor and are not certain of their status**
 - **recommended for anyone who is concerned**
- **Those who test positive should not present for vaccination (do not have to declare why opted out)**

Contraindications and Precautions

(Nonemergency Situations)

- Do not administer if history of eczema OR atopic dermatitis**
- Do not administer if close contacts have history of eczema OR atopic dermatitis**
- Other acute, chronic, exfoliative conditions (e.g., allergic rash, burn, impetigo, chickenpox, shingles, severe acne – wait until resolved or under good control**
- When in doubt about whether eczema or atopic dermatitis present, err on the side of caution**

Eczema Vaccinatum (contact)



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Smallpox Vaccine

Contraindications and Precautions

(Nonemergency Situations)

- **Pregnancy or pregnant household contact**

Screening for Pregnancy

- In pre-event setting, should NOT be given to:
 - pregnant women
 - women trying to become pregnant
 - household contacts of pregnant women
- Educate women of child-bearing age about fetal vaccinia
- Advise avoidance of pregnancy for 4 weeks following vaccination
- Information about pregnancy and testing in vaccinee screening worksheet

Screening for Pregnancy

- **ACIP does not recommend routine testing**
- **If concern for possible pregnancy get tested during pre-screening period**
 - **home test for pregnancy**
 - **best if done on morning of (prior to) vaccination**
- **Educate about ways to reduce risk of pregnancy before or within 4 weeks after vaccination**
- **Establish pregnancy registry for women inadvertently vaccinated**

Smallpox Vaccine

Contraindications and Precautions

(Nonemergency Situations)

- **Breastfeeding (package insert precaution)**
 - vaccination not recommended for breastfeeding mother
 - unknown whether viral antigens or antibodies transmitted in breastmilk
- **Closer proximity to vaccination site**

Smallpox Vaccine

Contraindications and Precautions

(Nonemergency Situations)

- **Persons using steroid eye medications should not be vaccinated until the course of therapy is completed**
- **(Presumed increased likelihood of autoinoculation, because of increased eye manipulation and inflammation)**

Smallpox vaccine

Contraindications and Precautions (Nonemergency Situations)

- **As with other vaccine, should not be administered if person experiencing moderate or severe acute illness at time of scheduled vaccination**

Vaccinee Contraindications Screening Worksheet (Pre-Clinic Screening)

Screening Worksheet

- **Information and questions to help potential vaccinee determine if should or shouldn't get vaccine or if should get additional medical testing or evaluation before deciding**
- **Not collected at clinic but encouraged to bring and discuss if questions**

Screening Worksheet

Additional questions about:

- HIV risk factors
- Cancer
- Transplants (organ or bone marrow)
- Immunosuppressive conditions or medications
- Medication allergies
- Previous reactions to smallpox vaccine
- Darier's disease

Screening Worksheet

Additional questions about:

- Skin conditions or therapies for skin conditions
- Radiation or chemotherapy
- Atopic dermatitis or eczema

Screening Worksheet: Questions for HIV Risk

1. Use of a needle to take drugs, steroids, or anything not prescribed by a doctor
2. Had an accidental needle stick
3. Had sexual contact with someone who has HIV/AIDS or has had a positive test for HIV/AIDS virus
4. Had sexual contact with a prostitute or someone who takes money or drugs for payment for sex
5. Had sexual contact with someone who has ever used needles to take drugs, steroids, or anything not prescribed by a doctor
6. For women: Had sexual contact with a man who has ever had sex with another man
7. For men: Had sexual contact with another man

Screening Worksheet: Questions for HIV Risk

- **Advised to get HIV tested prior to vaccination if in risk category and don't know status**
- **Advised to get HIV tested if not in category but still concerned**

Screening Worksheet: Eczema or Atopic Dermatitis Risk

- **In-depth questions about skin rashes or other medical history that may increase probability of having eczema or atopic dermatitis in absence of known diagnosis**
- **Advised to not get vaccinated or get further medical evaluation regarding possibility of eczema or atopic dermatitis**

Clinic: Medical Screening

- Pre-Vaccination packet materials reviewed and questions answered
- Eligibility determined/verified on Clinic History form
 - Contraindications that apply to non-emergency use of vaccine
- If further evaluation needed, Healthcare Response Team member referred to screening team manager (an MD) for final decision
- All who are determined to be eligible and who agree are referred for vaccination

Questions and Discussion